

AD-A129 669

14823 LANCE MISSILE NUMBER 4849 26 APRIL 1983(U) ARMY
ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WSMR NM
ATMOSPHERIC SCIENCES LAB D C KELLER APR 83

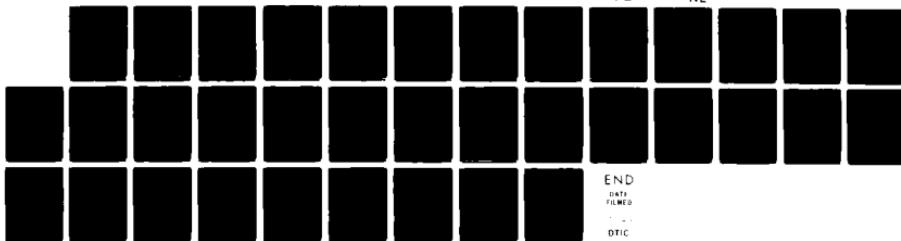
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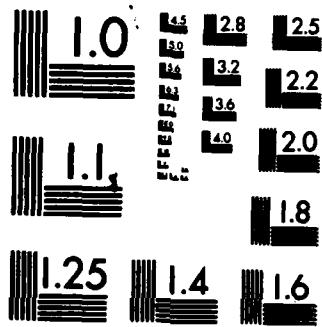
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METEOROLOGICAL DATA REPORT
14823 LANCE REPORT
Missile Number 4849
26 April 1983

by

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Metorological data gathered for the launching of the 14823B LANCE, Missile Number 4849 are presented in tabular form.		

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INTRODUCTION

14823B LANCE, Missile Number 4849, Round Number 384-MST, was launched from LC-39 White Sands Missile Range (WSMR), New Mexico, at 0918:48 MST, 26 April 1983. The scheduled launch time was 0900 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-39 Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-36 9000 Feet

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

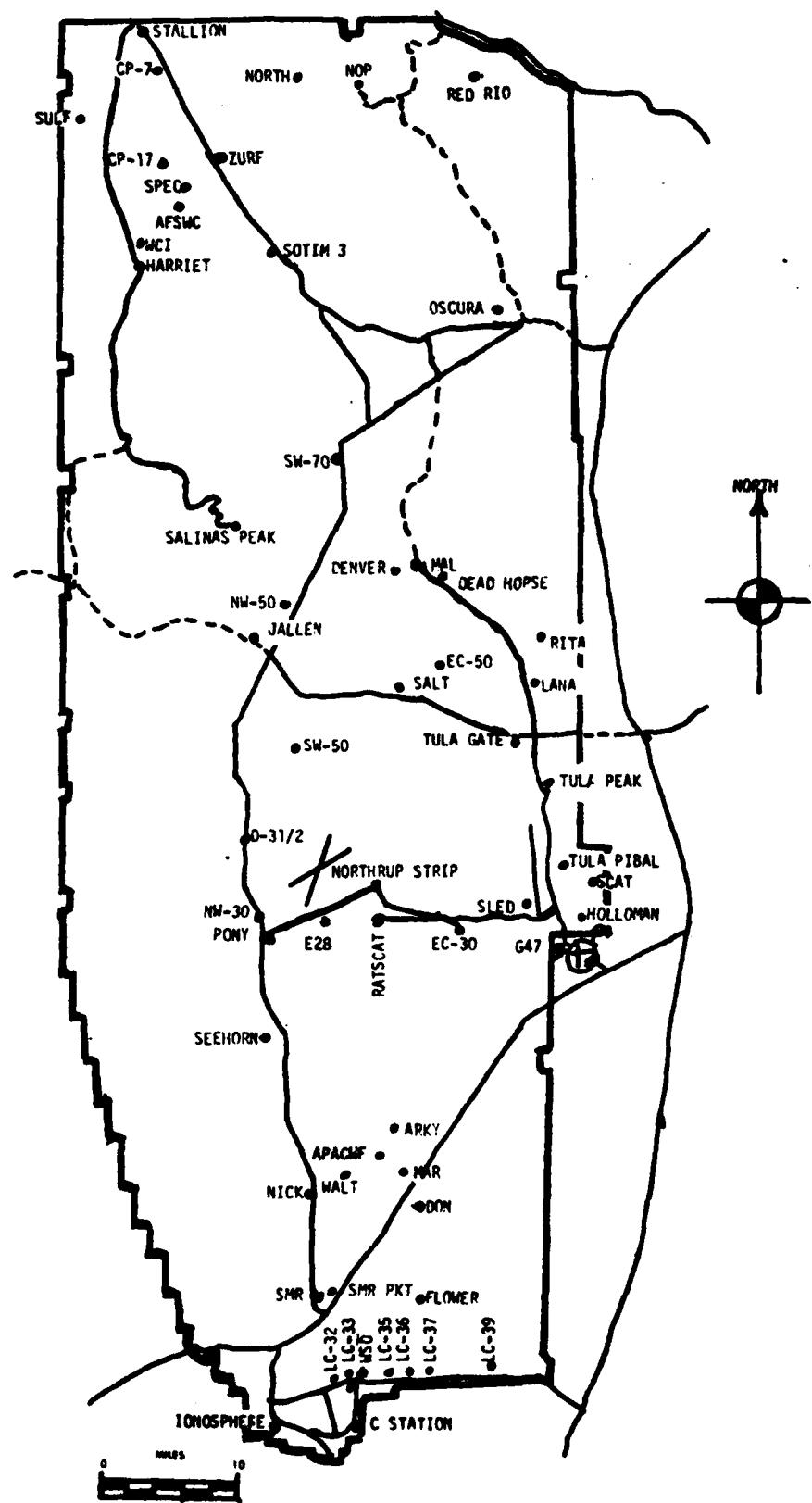
SITE AND TIME

WSD 0900 MDT
NW-30 0800 MDT
JALLEN 0900 MDT

Accession For	
NTIS GRA&J.	
DTIC TAB	
Unannounced	
Justification	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A 23 C	



WSMR METEOROLOGICAL SITES



PRECIPITATION SURFACE OBSERVATION

TABLE 1

DATE 26 Apr 83

YEAR

TIME M D T	PRESSURE mbs	TEMPERATURE OF °C	DEW POINT OF °C	RELATIVE HUMIDITY %	DENSITY g/m ³	WIND DIRECTION deg. Tn	WIND SPEED kts	CHARACTER kts	VISIBIL- ITY
0900	872.6	20.8	7.6	42		270	09		20
0919	872.5	20.9	7.7	42		270	10		20

STATION LC-39

X = 530.938.82 Y = 186.564.96 H = 4063.75

OBSTRUCTIONS TO VISIBILITY	CLOUDS			REMARKS		
	1st LAYER AMT	TYPE	HGT	2nd LAYER AMT	TYPE	HGT
	1	AS	12,500			
	1	AS	12,500			

PSYCHRO-ELECTRIC COMPUTATION

TIME:	0900	0919
DRY BULB TEMP.	20.8	20.9
WET BULB TEMP.	12.9	13.0
WET BULB DEPR.	7.9	7.9
DEW POINT	7.6	7.7
RELATIVE HUMID.	42	42

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-36

DATE 26 Apr 83

TIME 0009 MDT

COORDINATES (WSTM) X = 504,466.00 Y = 190,732.16 H = 4037.21

NOTE: WIND DIRECTIONS ARE REFERENCED TO _____.

HEIGHTS ARE METERS AGL _____ OR FEET AGL X _____.

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	310	12
200		Mis
400	283	20
600	284	24
800	284	25
1000	285	25
1200	282	22
1400	284	23
1600	288	24
1800	282	24
2000	277	23
2200	276	23
2400	280	22
2600	288	22
2800	288	23
3000	289	24
3200	288	25
3400	289	25
3600	293	22
3800	291	22
4000	292	22
4200	293	23
4400	291	24
4600	288	24
4800	282	25
5000	277	28
5200	271	27
5400	270	30
5600	271	33
5800	271	33

PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM LC-36

DATE 26 Apr 83

TIME 0919 MDT

COORDINATES (WSTM) X= 504,466.00 Y= 190,732.16 H= 4037.21

NOTE: WIND DIRECTIONS ARE REFERENCED TO _____.

HEIGHTS ARE METERS AGL OR FEET AGL .

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
SFC	315	14
200		MISG
400	284	20
600	284	25
300	281	24
1000	285	24
1200	281	23
1400	283	24
1600	282	24
1800	281	26
2000	274	21
2200	274	22
2400	273	21
2600	274	23
2800	277	27
3000	272	24
3200	281	28
3400	281	26
3600	285	22
3800	286	21
4000	288	20
4200	282	22
4400	278	23
4600	277	25
4800	274	28
5000	271	29
5200	270	1
5400	270	31
5600	271	27
5800	267	26

COMPUTER MET MESSAGE DATA
26 April 1983

WSD 0900 MDT	NW-30 0800 MDT	JALLEN 0900 MDT
METCM1324064	METCM1329065	METCM1332065
261500122873	261400122871	261500124871
00462014 29400873	00533004 29090871	00444002 29260871
01501022 29140862	01501006 29010861	01349005 29180861
02495020 28860837	02470008 28800836	02406003 28900836
03486025 28540798	03472021 28460797	03470003 28500797
04496030 28170752	04408014 28060750	04491011 28040750
05488018 27780707	05489024 27690706	05479013 27660706
06477020 27380665	06178032 27530663	06478029 27450663
07476026 27070625	07454031 27200623	07454029 27220623
08447022 26780586	08453035 26780585	08434028 26750585
09436017 26420550	09421023 26370549	09417026 26370549
10431022 26040515	10405022 25950514	10417025 25950514
11439026 25650483	11420023 25530481	11429032 25560481
12437029 25110436	12430035 24930435	12422036 25020435
13435028 24350380	13431034 24300379	13453036 24300379
14435032 23520330	14441035 23520328	14444040 23470329
15453033 22690285	15448041 22630283	15450042 22610283
16455047 22030244	16451055 21980243	16457056 21940243
17475061 21640209	17465067 21580208	17476075 21640208
18474063 21430179	18475072 21420178	18471070 21370178
19476062 21780152	19473081 21550152	19466031 21510152
20467055 21510130	20468081 21320129	20460080 21420129
21467052 21030111	21460066 21090110	21461071 21230110
22457050 20920095	22473056 21070094	22475062 21120094
23473030 21320081	23480046 21170080	23504028 21190080
24495010 21260069	24414005 21200068	24329008 21290068
25447014 21610059	25458013 21560058	25221011 21530058
26402006 21730050	26163016 21610050	26144008 21720050

STATION 111111 0900 111111

STRENGTH LEVEL DATA WHIFF SAWDUST

GEODETIC COORDINATES
32°40'43" LAT LEG
106°37'03" LONG DEG

TABLE 5

PRESSURE OF OXYGENIC MILLIBARS MSL FEEF	TEMPERATURE AIR DEPOINT DEGREES CENTIGRADE	HUMIDITY PERCENT		
		2000	4000	3600
972.5	3089.0	200.1	40.0	36.0
964.0	4240.0	17.5	-2.7	25.0
856.0	4721.0	15.9	-5.1	27.0
825.0	5520.0	13.8	-5.5	30.0
775.3	7250.0	10.0	-7.1	27.0
766.0	10013.1	5.7	-16.0	22.0
644.1	12211.6	-1.5	-22.1	19.0
637.0	12790.0	-2.2	-25.9	17.0
603.8	13894.7	-4.1	-24.0	18.0
578.2	15013.2	-6.2	-25.9	23.0
520.8	17671.9	-12.2	-31.0	19.0
500.0	18691.4	-14.8	-35.2	19.0
453.3	20839.5	-19.5	-37.2	19.0
400.0	24119.0	-26.7	-45.3	19.0
357.2	26770.5	-33.3	-48.4	20.0
354.4	67214.1	-36.2	-48.8	21.0
324.5	28765.4	-39.0	-52.5	22.0
300.0	30720.4	-43.6		
299.3	30195.0	-43.7		
268.5	33147.2	-49.6		
256.7	34111.7	-51.7		
250.0	34676.0	-51.9		
233.9	36983.6	-54.6		
228.5	36551.2	-54.5		
212.5	38107.6	-56.0		
200.0	39371.3	-58.3		
192.1	40204.5	-59.6		
177.4	41544.7	-59.0		
175.0	42126.3	-58.1		
167.8	43000.0	-57.4		
163.4	43555.3	-56.0		
156.0	45155.5	-55.0		
143.5	46287.0	-54.9		
112.3	51357.3	-63.2		
100.0	53700.0	-64.0		
93.7	55101.5	-65.1		
90.3	55765.4	-63.2		
82.2	57675.0	-62.5		
79.1	58469.9	-56.6		
76.9	61100.7	-60.4		

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TRANS. STATION 3, 3000 FT. 1000
46 APR. '45 0900 MDT
ASCHENBLAU, E. H.

SIGHTING ALTITUDE DATA

11600, 0204

WHITE SWIDS

TABLE 5 Cont'd

GEODETIC COORDINATES
32°40'04.3 LAT (E)
106°37'03.3 LONG (E)

PRESSURE AT OBTAINING MILLIBARS (SL. FEE.)	ALTITUDE MILLIBARS (SL. FEE.)	TEMPERATURE AIR DEP. (MM) OF GEEES CFT (SL. FEE.)	REL. HUM. PERCENT
67.1	61672.4	-62.8	
66.9	63672.2	-57.0	
59.0	686007.2	-55.0	
51.4	75137.8	-53.6	
51.7	75145.5	-51.4	
30.5	78661.7	-52.2	

STATION ALTITUDE 5,500.0 FT SL
26 APR. 1953 0900 MDT
ACUITY, IN. 0.0. 0

UPPER AIR 0.1A
11,000-20,000
WIND SPEEDS

SYNTHETIC COEFFICIENTS
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 6

GEODETIC PRESSURE ATLANTIC MSL PEL,	TEMPERATURE ATM DEGREE C	DEWPOINT DEGREES CENTIGRADE	REL. HUMIDITY PERCENT	SPECIFIC SOUND METER	WIND DIRECTION DEGREES (TRUE)	WIND SPEED KILOTS	BIGEX OR REFRACT. 10:
3909.0	872.0	80.1	90.0	36.0	1032.7	660.4	260.0
4000.0	872.2	80.0	90.5	35.5	1032.7	660.2	260.2
4500.0	850.8	100.6	20.9	26.1	1027.7	660.2	260.6
5000.0	841.5	15.2	70.2	28.0	1014.5	662.2	271.0
5500.0	820.1	15.0	30.4	29.9	1001.0	660.7	274.2
6000.0	611.6	12.0	41.7	29.2	990.9	659.4	275.2
6500.0	797.0	11.7	61.1	26.3	975.0	653.1	274.9
7000.0	762.6	10.6	74.4	27.4	959.3	648.3	275.2
7500.0	760.3	9.4	80.8	26.6	945.7	645.4	276.4
8000.0	734.0	8.3	10.2	25.7	932.2	654.0	277.6
8500.0	740.4	7.2	11.6	26.7	919.0	652.7	277.3
9000.0	720.8	6.0	13.1	23.8	905.9	651.3	276.6
9500.0	712.1	4.7	14.5	22.9	893.0	649.9	275.9
10000.0	700.3	3.7	16.0	22.0	880.3	648.6	274.4
10500.0	687.2	2.5	17.3	21.3	867.6	647.1	272.6
11000.0	674.3	1.4	18.7	20.7	855.1	645.7	270.5
11500.0	661.7	0.2	20.1	20.0	842.7	644.5	269.1
12000.0	649.3	-1.0	21.5	19.3	830.6	642.9	268.1
12500.0	637.6	-1.8	23.0	18.0	817.5	641.9	267.1
13000.0	624.9	-2.6	24.1	17.2	804.1	641.0	266.3
13500.0	613.0	-3.4	24.5	17.6	791.4	640.0	264.1
14000.0	601.3	-4.3	24.7	18.5	770.6	638.9	260.6
14500.0	589.8	-5.2	24.2	20.7	760.5	637.0	256.6
15000.0	570.5	-6.2	23.9	22.9	754.4	636.7	252.9
15500.0	567.2	-7.3	25.2	22.3	742.9	635.4	245.6
16000.0	550.2	-8.4	26.5	21.5	731.6	634.0	240.3
16500.0	543.4	-9.6	27.9	20.8	720.4	632.0	237.8
17000.0	534.0	-10.7	29.2	20.0	709.5	631.3	240.7
17500.0	524.3	-11.8	30.9	19.3	690.7	629.9	243.1
18000.0	514.6	-13.0	31.7	19.0	680.2	628.4	242.5
18500.0	503.8	-14.3	32.4	19.0	677.9	626.9	242.0
19000.0	495.8	-15.5	33.8	19.0	667.4	625.4	242.3
19500.0	492.9	-16.6	31.7	19.0	656.6	624.1	242.5
20000.0	474.2	-17.7	35.6	19.0	646.4	622.6	243.7
20500.0	464.7	-18.8	36.5	19.0	636.2	621.4	245.1
21000.0	455.3	-19.9	37.5	19.0	626.0	620.1	246.3
21500.0	445.9	-21.0	36.0	19.0	615.6	618.7	247.2
22000.0	436.9	-22.0	39.3	19.0	605.6	617.4	247.8
22500.0	427.0	-23.1	40.2	19.0	596.0	616.0	247.6
23000.0	419.0	-24.2	41.2	19.0	586.3	614.7	247.6

STATION ALTITUDE 3,890.00 FEET MSL
26 APR. 63
ASCENSION ISL. 214
0900 MDT

REFLECTIVE ALKALI
1160020204
WHTF SAWUS

OPTICAL COORDINATES
32°49'04.3 LAT REG
106°37'03.5 LONG REG

TABLE 6 Cont'd

GEOMETRIC ALTITUDE	PRESSURE	TEMPERATURE	DEWPOINT	REL. HUM. PERCENT	REL. HUM. CENTIGRADE	WIND DATA	INFLUX		
IN FEET	IN MILLIBARS	DEGREES	DEGREES	PERCENT	CENTIGRADE	SPD (KNOTS)	DIR. (DEGREES TIN)	OR REFRACTION	
MSL FEET	MM					KNOTS			
2400.0	725.3	-72.1	19.0	670.8	613.5	246.6	27.4	1.000129	
2400.0	716.5	-70.4	19.0	567.5	611.9	245.7	26.8	1.000127	
2450.0	717.7	-71.7	19.1	558.4	610.4	244.9	27.0	1.000125	
2450.0	716.9	-70.9	19.3	519.4	608.9	245.1	27.7	1.000123	
2500.0	716.1	-70.1	19.5	510.5	607.5	245.4	28.4	1.000121	
2500.0	709.1	-61.4	19.7	531.6	605.8	245.1	26.5	1.000119	
2550.0	701.3	-52.6	19.9	523.3	604.2	245.1	28.7	1.000117	
2700.0	555.7	-33.8	20.5	514.6	602.8	245.5	29.3	1.000115	
2750.0	390.0	-33.0	21.2	506.1	601.2	245.7	30.1	1.000113	
2800.0	330.5	-36.4	21.4	498.0	599.5	245.8	31.2	1.000111	
2850.0	331.2	-51.7	21.7	490.0	597.8	245.3	31.8	1.000109	
2900.0	324.0	-39.1	52.0	482.2	590.0	244.6	32.3	1.000108	
2950.0	310.8	-40.4	56.7	15.3**	474.2	594.4	44.5	32.8	1.000106
3000.0	309.8	-61.7	61.8	9.0**	466.3	592.7	245.1	33.2	1.000104
3050.0	305.7	-63.9	71.0	2.0**	458.0	591.0	248.9	33.3	1.000102
3100.0	298.2	-43.7	42.0	449.8	590.1	255.2	33.7	1.000100	
3150.0	293.5	-45.1	45.4	442.2	588.3	257.9	34.3	1.000098	
3200.0	285.7	-66.5	46.7	434.9	588.6	258.3	34.2	1.000097	
3250.0	270.6	-67.3	47.3	427.6	584.9	256.6	33.8	1.000096	
3300.0	270.3	-19.2	42.0	420.5	583.0	254.8	34.5	1.000094	
3350.0	264.1	-60.4	41.0	413.0	581.5	253.3	35.7	1.000092	
3400.0	256.2	-51.5	45.5	405.5	580.1	255.9	39.1	1.000090	
3450.0	252.1	-51.9	45.9	396.8	579.6	254.4	42.6	1.000088	
3500.0	246.2	-52.5	46.2	388.8	578.7	254.8	46.2	1.000087	
3550.0	240.5	-53.5	46.0	391.4	577.4	255.2	49.8	1.000085	
3600.0	234.0	-54.4	46.4	374.1	576.2	257.1	51.7	1.000083	
3650.0	229.1	-4.5	46.5	365.5	576.0	258.8	53.7	1.000081	
3700.0	224.0	-4.9	46.9	357.6	575.5	262.7	55.6	1.000080	
3750.0	215.7	-55.4	47.0	349.9	574.9	266.6	57.6	1.000078	
3800.0	213.6	-55.9	47.5	342.5	574.2	267.9	59.4	1.000076	
3850.0	209.5	-56.7	48.1	132.7	573.1	268.7	61.1	1.000075	
3900.0	205.6	-57.6	48.7	329.1	571.9	267.7	62.3	1.000073	
3950.0	193.8	-58.5	49.3	322.6	570.8	266.5	63.5	1.000072	
4000.0	194.7	-59.3	49.7	316.0	569.7	266.9	64.2	1.000070	
40500.0	187.4	-59.6	50.4	307.0	569.3	268.0	64.8	1.000069	
4100.0	184.8	-59.7	50.7	301.6	569.2	268.3	65.0	1.000067	
41500.0	189.4	-59.8	50.9	294.5	569.1	268.1	64.9	1.000066	
42000.0	176.1	-58.9	51.1	286.2	570.3	267.2	64.1	1.000064	
42500.0	171.7	-57.6	51.7	279.1	571.7	265.7	62.9	1.000062	
43000.0	167.8	-57.4	51.8	270.9	572.2	265.2	65.9	1.000060	

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTIMETER 3,800 FEET
25 APR. 1953 0900 MDT

IMPREC. AIR DATA
11.00020204
WHTF SANS

TABLE 6 Cont'd

GEOD. TRAC	PERIOD	TEMPERATURE	REL. HUM.	INTENSITY	SPD. OF	WIND DATA	SPEED	INFLX
ALTIMETER	MINUTES	AIR DEWPNT	PERCENT	GR/CUBIC	SOLID	DIRECTION	KNOTS	OF
PSL. FEET	HUNDREDS	MEGAL	CLINICRDR	METER	MMOS	DEGREES(1N)	MMOS	REFRACTION
43500.0	100.0	-66.1	263.0	573.9	265.1	207.7	1.000019	
44000.0	100.0	-65.8	250.4	574.4	266.0	69.8	1.000057	
44500.0	150.2	-65.5	250.0	574.0	207.1	68.1	1.000056	
45000.0	150.6	-65.2	243.6	573.1	208.3	61.0	1.000054	
45500.0	149.0	-65.0	237.9	575.4	209.1	54.7	1.000053	
46000.0	145.5	-64.9	232.2	575.5	209.1	52.8	1.000052	
46500.0	142.0	-65.2	227.1	575.1	208.3	51.4	1.000051	
47000.0	130.6	-66.1	222.5	574.0	206.5	51.2	1.000050	
47500.0	130.3	-66.9	216.0	572.9	204.8	52.3	1.000049	
48000.0	132.1	-67.7	213.6	571.8	203.3	54.9	1.000048	
48500.0	126.9	-68.5	209.3	570.7	202.0	57.3	1.000047	
49000.0	125.9	-69.3	205.1	569.7	201.4	58.2	1.000046	
49500.0	122.0	-60.2	200.9	568.6	200.8	59.1	1.000045	
50000.0	119.9	-61.0	196.9	567.5	200.8	58.2	1.000044	
50500.0	117.1	-61.8	192.9	566.4	201.1	56.6	1.000043	
51000.0	114.5	-62.6	189.1	565.3	261.7	54.4	1.000042	
51500.0	111.5	-63.2	185.1	564.4	262.9	51.3	1.000041	
52000.0	108.8	-63.4	180.7	564.2	263.5	49.2	1.000040	
52500.0	106.1	-63.6	176.4	564.0	263.3	48.3	1.000039	
53000.0	105.5	-63.8	172.3	563.7	262.1	48.3	1.000038	
53500.0	101.0	-63.9	169.2	563.5	260.3	49.0	1.000037	
54000.0	98.6	-64.2	164.3	563.1	258.9	49.7	1.000036	
54500.0	96.1	-64.6	160.8	562.6	257.6	50.4	1.000036	
55000.0	95.5	-65.0	157.0	562.1	257.3	50.8	1.000035	
55500.0	91.5	-63.8	152.3	563.6	257.1	51.0	1.000034	
56000.0	89.3	-63.9	148.1	564.6	257.5	49.9	1.000033	
56500.0	87.1	-62.9	144.3	564.6	258.0	48.4	1.000032	
57000.0	85.2	-62.7	140.7	565.1	259.3	42.5	1.000031	
57500.0	82.0	-62.6	137.2	565.3	261.4	35.0	1.000031	
58000.0	80.9	-60.1	132.3	568.6	265.1	27.1	1.000030	
58500.0	79.0	-60.6	127.1	573.2	272.0	19.0	1.000028	
59000.0	77.1	-57.4	124.5	572.2	279.8	14.5	1.000026	
59500.0	75.3	-58.1	122.0	571.2	282.5	13.5	1.000027	
60000.0	73.5	-58.9	119.5	570.2	285.0	12.6	1.000027	
60500.0	71.7	-59.6	117.0	569.3	280.8	13.0	1.000026	
61000.0	70.0	-60.4	114.7	568.3	276.9	13.5	1.000026	
61500.0	68.3	-61.0	112.0	567.4	273.1	12.6	1.000025	
62000.0	66.7	-62.4	110.2	566.5	268.3	11.0	1.000024	
62500.0	65.1	-61.0	108.9	567.0	262.1	9.7	1.000023	
63000.0	63.9	-59.5	103.6	569.4	254.1	8.7	1.000023	

STATION ALTITUDE 5,000 FT. AS,
IS AIR. 65°F. 0900 MDT
ASCENTION 10. 2.4

WEATHER AIR WIND
1160020204
WIND SWING

WEATHER COORDINATES,
32°40'00" LAT LEG
106°37'03" LONG LEG

TABLE 6 Cont'd

STATION ALTITUDE IN FEET	PRESSURE IN MILLIBARS	TEMPERATURE IN DEGREES CELSIUS	WIND PERCENT	WIND SPEED IN METERS PER SECON-	WIND DIRECTION IN DEGREES FROM NORTH	WIND DIRECTION IN DEGREES FROM REFRACTION
5,000.0	102.0	-58.1	100.4	571.3	245.2	7.0
5,000.0	100.5	-57.0	97.5	572.8	244.5	7.8
5,000.0	99.1	-56.0	95.2	573.0	243.8	7.7
5,000.0	97.7	-55.0	92.9	573.2	246.6	7.2
5,000.0	96.4	-54.0	90.6	573.3	250.1	6.8
5,000.0	95.0	-53.0	88.4	573.5	253.6	6.9
5,000.0	93.7	-52.0	86.3	573.7	256.7	7.1
5,000.0	92.5	-51.0	84.2	573.9	258.7	7.8
5,000.0	91.2	-50.0	82.2	574.0	259.7	8.6
5,000.0	90.0	-49.0	80.2	574.2	256.1	9.9
5,000.0	88.8	-48.0	78.3	574.5	47.7	11.4
5,000.0	87.7	-47.0	76.4	574.6	241.6	12.7
5,000.0	86.5	-46.0	74.5	574.8	237.5	12.8
5,000.0	85.3	-45.0	72.7	575.0	233.5	12.9
5,000.0	84.1	-44.0	70.9	575.6	226.9	12.2
5,000.0	83.0	-43.0	69.2	575.8	219.3	11.6
5,000.0	81.9	-42.0	67.5	576.1	212.5	10.7
5,000.0	80.8	-41.0	65.9	576.0	204.9	9.6
5,000.0	79.7	-40.0	64.3	576.7	200.2	8.2
5,000.0	78.6	-39.0	62.7	576.9	201.0	6.2
5,000.0	77.5	-38.0	61.2	577.2	202.7	4.7
5,000.0	76.4	-37.0	59.6	578.0	205.4	4.9
5,000.0	75.3	-36.0	58.0	578.9	207.9	5.0
5,000.0	74.2	-35.0	56.5	579.9	212.3	5.4
5,000.0	73.1	-34.0	55.2	580.0	216.2	5.8
5,000.0	72.0	-33.0	53.9	579.9	212.2	5.4
5,000.0	70.9	-32.0	52.7	579.7	200.6	4.6
5,000.0	69.8	-31.0	51.5	579.0	1.000013	1.000011
5,000.0	68.7	-30.0	50.4	579.4	1.000012	1.000011
5,000.0	67.6	-29.0	49.2	579.3	1.000012	1.000011
5,000.0	66.5	-28.0	48.1	579.1	1.000011	1.000011

TABLE 7
INITIAL LEVELS
1,000,000
INITIAL SIZES

Set on the boundaries
32° 40' 3 LAT DEG
106° 57' 3 LONG DEG

TABLE 7

THESE ARE THE FINEST FLEET	OF THE VARIOUS	WILLIAMS	WEATHER	AT	ALL	WIND DIRECTION	SPEED	WIND DIRECTION	WIND VELOCITY
WILLIAMS	FLEET	WEATHER	WEATHER	OF UPWIND	CENTIGRADE	PERCENT	WEIGHTS (T)	WEIGHTS (T)	WEIGHTS (T)
750.0	4718.	15.9	15.9	-3.1	27.	268.7	16.4	268.7	16.4
750.0	6303.	11.0	11.0	-5.6	28.	275.0	20.6	275.0	20.6
750.0	8151.	8.0	8.0	-10.6	25.	277.7	20.9	277.7	20.9
700.0	10003.	3.7	3.7	-16.0	22.	274.4	22.0	274.4	22.0
650.0	11960.	0.0	0.0	-21.4	19.	268.2	19.2	268.2	19.2
600.0	14642.	-4.4	-4.4	-24.6	19.	260.2	24.1	260.2	24.1
550.0	16271.	-9.1	-9.1	-27.3	21.	256.6	16.9	256.6	16.9
500.0	16665.	-11.8	-11.8	-32.2	19.	242.1	23.0	242.1	23.0
450.0	21253.	-20.5	-20.5	-36.0	19.	246.9	29.2	246.9	29.2
400.0	24078.	-26.7	-26.7	-43.3	19.	245.6	20.9	245.6	20.9
350.0	27101.	-31.3	-31.3	-48.8	21.	245.7	29.6	245.7	29.6
300.0	30660.	-43.6	-43.6	-50.5	20.	250.5	33.4	250.5	33.4
250.0	34602.	-51.9	-51.9	-54.5	20.	254.5	43.7	254.5	43.7
200.0	39278.	-58.3	-58.3	-60.8	19.	266.8	63.1	266.8	63.1
175.0	42021.	-58.1	-58.1	-60.9	19.	266.9	63.9	266.9	63.9
150.0	45233.	-55.0	-55.0	-59.3	19.	269.3	56.3	269.3	56.3
125.0	49025.	-50.6	-50.6	-56.0	20.	261.2	56.4	261.2	56.4
100.0	53542.	-60.0	-60.0	-64.7	19.	259.7	49.2	259.7	49.2
80.0	58043.	-58.3	-58.3	-67.3	19.	267.3	23.7	267.3	23.7
70.0	60708.	-60.4	-60.4	-70.1	19.	277.1	13.5	277.1	13.5
60.0	63955.	-56.9	-56.9	-64.3	19.	244.3	7.7	244.3	7.7
50.0	67752.	-55.9	-55.9	-65.7	19.	256.7	9.8	256.7	9.8
40.0	72412.	-54.0	-54.0	-60.4	19.	260.4	7.5	260.4	7.5

*** A LAST ONE ASUMED FOR LIVE MUNICITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4510.0 FT MSL
26 APR 1955
ASCR SIG. 10. 10. 0800 MDT

SIGNIFICANT LEVEL DATA
1602Z0010
NY 30 =

GEODETIC COORDINATES
32°08'49" LAT DEG
106°49'14" LON DEG

TABLE 8

PRESSURE GRADIENT MILLIBARS ARL FLT I	ALTITUDE MILLIBARS ARL FLT I	TEMPERATURE DEGREES CFNTIGRADE	AIR DENSITY PERCENT
070.0	4010.4	17.2	29.0
080.0	4685.2	15.6	29.8
090.4	6277.2	11.3	30.2
0762.2	7075.7	6.2	31.0
0725.8	9107.8	4.2	34.0
0706.0	7062.4	2.9	36.0
0674.4	10030.0	2.6	37.0
0647.4	12034.3	0.9	38.0
0594.2	14713.0	-5.7	38.0
0532.2	17008.3	-11.6	39.0
0500.0	18640.9	-15.6	39.8
0427.2	22481.1	-25.2	40.2
0400.0	24045.5	-27.6	44.0
0360.0	25039.9	-31.4	46.6
0334.0	28236.4	-36.8	51.0
0323.0	28795.6	-39.2	53.1
0300.0	30644.0	-44.0	53.0
0282.4	31940.1	-47.3	53.0
0264.6	33302.1	-50.3	53.0
0250.0	34795.3	-52.5	53.0
0236.8	35742.7	-54.5	53.0
0219.2	37364.8	-56.4	53.0
0214.0	37667.1	-56.3	53.0
0200.0	39276.0	-58.4	53.0
0188.4	40509.2	-60.2	53.0
0160.0	42754.0	-58.1	53.0
0159.8	43916.5	-57.2	53.0
0150.0	45258.8	-57.0	53.0
0142.4	46318.8	-59.1	53.0
0117.8	50223.2	-60.4	53.0
0105.2	52336.6	-63.4	53.0
0100.0	53559.4	-62.2	53.0
0070.0	58359.0	-62.6	53.0
0077.5	58751.7	-59.8	53.0
0076.0	59154.8	-59.8	53.0
0070.0	60044.7	-61.5	53.0
0065.6	61861.2	-62.6	53.0
0059.0	64715.1	-56.9	53.0
0050.0	67817.0	-57.4	53.0
0044.6	70210.0	-56.2	53.0

STATION ALTITUDE 4,100.00 FT. MSL
6 AM. 15 APR. 1968 0800 MDT
ASL#100. 10

CHART LEVEL 0.001

HW. 30

TABLE 8 Cont'd

PRESSURE GEOMETRIC ALTITUDE IN FEET, MSL	TEMPERATURE IN DEGREES CENTIGRADE	REL. HUM. PERCENT
112.2	71.75.9	54.6
37.0	74.49.5	56.0
34.6	75.69.1	53.1
30.0	76.10.0	52.0
25.4	82.66.0	52.5
20.0	87.52.0	46.1
16.2	94.50.3	42.7
12.2	98.379.6	38.0

PRODUCTIVE CLOUD LIMITS
32.00497 LAT E.
106.499714 LONG E.

卷之三

TABLE 9

GEODLTC COMMUNITIES
106-49714 106-1166
52-88997 LAT 116

STATION ALTITUDE: 11,000 FT. 1
26 APR. '63 0800 MDT
ASCI. S10. NO. 1.3

URPT. AIR DATA
11,000 FT. 1
11W 30
TABLE 9 Cont'd

STATION ALTITUDE	PRESSURE	TEMPERATURE	REL. HUMID.	DEFL. ALT.	SPL. FWD. OF SOUND	REF. SPEED METER	INIT. DATA INFL. DIA.	INFL. SPEED KNOTS	INIT. DATA OR WFFraction
24,000.0	100.0	-27.5	-43.0	19.1	560.3	610.0	238.5	37.2	1.000127
24,500.0	392.3	-28.0	-41.0	19.2	558.6	609.4	240.3	36.9	1.000125
25,000.0	354.1	-29.5	-45.0	12.5	549.1	608.1	244.6	37.5	1.000123
25,500.0	370.0	-20.5	-46.0	10.0	539.6	606.9	244.0	28.2	1.000121
26,000.0	360.0	-31.5	-46.9	20.0	510.0	606.6	243.0	29.4	1.000119
26,500.0	350.1	-12.7	-47.0	20.2	521.8	604.1	243.2	33.1	1.000117
27,000.0	352.4	-3.9	-48.7	20.5	513.1	602.0	244.4	34.1	1.000115
27,500.0	314.0	-25.1	-49.7	20.7	504.5	601.1	247.5	32.8	1.000113
28,000.0	336.4	-36.2	-50.0	20.9	496.2	599.6	250.1	36.0	1.000111
28,500.0	336.1	-37.6	-51.7	21.0	485.3	597.4	250.1	37.1	1.000109
29,000.0	322.9	-19.2	-53.0	20.7**	480.9	593.9	248.7	37.0	1.000107
29,500.0	315.0	-40.7	-57.3	14.6**	473.2	594.0	248.0	36.7	1.000106
30,000.0	305.0	-12.1	-62.9	8.2**	465.0	592.1	247.4	37.0	1.000104
30,500.0	302.0	-3.6	-71.3	1.8**	456.2	590.3	247.4	38.6	1.000102
31,000.0	295.2	-41.9	-71.6		450.5	588.0	248.1	40.0	1.000100
31,500.0	285.5	-16.2	-74.0		442.6	586.9	249.3	41.3	1.000099
32,000.0	282.0	-7.4	-74.6		435.2	585.0	251.4	41.8	1.000097
32,500.0	275.6	-48.5	-75.0		427.3	583.9	253.9	41.9	1.000095
33,000.0	269.3	-9.5	-75.5		419.5	582.0	254.5	44.0	1.000093
33,500.0	265.1	-0.5	-76.0		411.8	581.2	254.0	46.6	1.000092
34,000.0	257.6	-1.4	-76.3		405.9	580.1	253.8	50.1	1.000090
34,500.0	251.1	-2.3	-76.6		396.1	578.9	253.9	52.1	1.000088
35,000.0	245.2	-3.2	-76.9		386.4	577.4	254.4	53.7	1.000087
35,500.0	239.5	-4.1	-77.0		380.9	576.0	254.7	57.3	1.000085
36,000.0	235.0	-4.1	-77.0		373.4	575.7	255.3	59.9	1.000083
36,500.0	228.0	-5.4	-77.0		365.4	574.9	256.3	61.3	1.000081
37,000.0	222.0	-6.0	-77.0		357.8	574.1	257.0	62.3	1.000080
37,500.0	217.4	-56.4	-77.0		350.0	573.6	259.8	63.1	1.000078
38,000.0	212.6	-56.5	-77.0		341.9	573.4	261.1	65.2	1.000076
38,500.0	207.6	-7.2	-77.0		335.0	572.4	262.2	67.6	1.000075
39,000.0	202.7	-56.0	-77.0		328.1	571.4	262.8	68.9	1.000073
39,500.0	197.9	-56.7	-77.0		321.4	570.3	263.2	70.1	1.000072
40,000.0	193.1	-59.5	-77.0		314.8	569.5	264.4	69.4	1.000070
40,500.0	188.5	-59.2	-77.0		308.3	568.5	265.7	68.3	1.000069
41,000.0	184.0	-59.7	-77.0		300.3	569.1	266.9	68.0	1.000067
41,500.0	179.6	-59.3	-77.0		292.9	569.7	267.9	68.1	1.000065
42,000.0	175.3	-58.8	-77.0		284.9	570.4	267.9	69.9	1.000063
42,500.0	171.1	-58.3	-77.0		277.5	571.0	267.8	71.6	1.000062
43,000.0	167.0	-57.9	-77.0		270.3	571.6	267.6	73.4	1.000060
43,500.0	163.7	-57.5	-77.0		263.4	572.1	267.0	75.0	1.000059

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTIMAR BRUNNEN FET ISL
26 APR 01 3:00
ASCENDING 1.0
0800 MDT

UNIVERSITY OF TORONTO LIBRARIES
1160220010

GEODETIC COUNTRIES
32.08497 LAT 110.06044714 LONG 106.06044714 LAT 110.06044714 LONG

TABLE 9 Cont'd

10000 ALTIMETER
26 APR 1953 0800 MDT
ASCENDS 1.0.

110022010
NW 30°
TABLE 9 Cont'd

ALTIMETER IN. FT.	PRECIPITATION IN. MM.	TEMPERATURE IN. °C.	DEWPOINT IN. °C.	PERCENT DEWPOINT CHANCE	WIND DIRECTION IN. DEGREES	WIND SPEED IN. METERS PER SEC.	WIND DIRECTION IN. DEGREES	WIND SPEED IN. KNOTS										
6900.0	0.0	-58.3	-58.3	0	97.4	571.0	220.6	4.5	1000022									
6899.5	5.6	-57.3	-57.3	0	94.0	572.3	182.7	2.2	1000021									
6899.0	51.2	-56.9	-56.9	0	32.2	572.8	116.9	2.9	1000021									
6898.5	55.9	-57.0	-57.0	0	70.0	572.7	102.1	5.0	1000020									
6898.0	51.5	-57.1	-57.1	0	97.9	572.6	96.7	7.2	1000020									
6897.5	55.3	-57.2	-57.2	0	52.9	572.5	100.7	6.8	1000019									
6897.0	52.0	-57.3	-57.3	0	63.9	572.4	105.2	6.4	1000019									
6896.5	50.8	-57.3	-57.3	0	81.9	572.3	119.7	4.7	1000018									
6896.0	49.6	-57.3	-57.3	0	80.0	572.4	126.6	3.4	1000018									
6895.5	50.1	-57.1	-57.1	0	78.0	572.7	193.3	3.9	1000017									
6895.0	46.3	-56.0	-56.0	0	76.1	573.0	106.7	4.8	1000017									
6894.5	40.1	-56.6	-56.6	0	74.2	573.0	215.5	5.8	1000017									
6894.0	42.5	-56.3	-56.3	0	72.4	573.7	209.8	5.6	1000016									
6893.5	41.0	-55.8	-55.8	0	70.5	574.3	203.7	5.4	1000016									
6893.0	42.3	-55.1	-55.1	0	66.6	575.4	196.4	5.6	1000015									
6892.5	42.6	-54.7	-54.7	0	66.9	575.8	189.7	6.1	1000015									
6892.0	41.5	-54.9	-54.9	0	65.4	575.5	182.4	6.6	1000015									
6891.5	40.0	49.2	49.2	0	63.9	575.2	172.2	7.2	1000014									
6891.0	39.1	-55.4	-55.4	0	62.5	574.9	163.7	8.0	1000014									
6890.5	35.2	-51.7	-51.7	0	61.1	574.5	157.0	7.9	1000014									
6890.0	31.3	-55.9	-55.9	0	59.8	574.2	150.1	7.7	1000013									
6889.5	30.1	-55.3	-55.3	0	58.2	573.11	148.3	7.1	1000013									
6889.0	32.5	-54.3	-54.3	0	62.5	574.9	156.7	5.9	1000013									
6888.5	34.7	-53.2	-53.2	0	55.0	577.7	189.1	4.9	1000012									
6888.0	33.9	-53.1	-53.1	0	53.7	577.9	189.8	4.5	1000012									
6887.5	30.1	-53.0	-53.0	0	52.4	578.0	210.9	4.8	1000012									
6887.0	32.4	-53.0	-53.0	0	51.2	578.0	225.7	5.4	1000011									
6886.5	31.6	-53.0	-53.0	0	50.0	578.0	235.7	5.0	1000011									
6886.0	30.7	-52.9	-52.9	0	48.8	578.1	244.0	6.5	1000011									
6885.5	30.2	-52.9	-52.9	0	47.7	578.2	253.9	7.1	1000011									
6885.0	29.5	-52.9	-52.9	0	46.6	578.2	262.2	7.0	1000010									
6884.5	29.0	-52.9	-52.9	0	45.5	578.3	279.9	6.5	1000010									
6884.0	29.1	-52.7	-52.7	0	44.4	578.4	277.5	9.2	1000010									
6883.5	27.5	-52.7	-52.7	0	43.4	578.4	284.0	10.0	1000010									
6883.0	26.1	-52.6	-52.6	0	42.4	578.5	285.7	10.3	100009									
6882.5	26.2	-52.6	-52.6	0	41.4	578.6	286.9	10.7	100009									
6882.0	25.6	-52.5	-52.5	0	40.4	578.7	287.5	10.9	100009									
6881.5	25.1	-52.1	-52.1	0	39.4	579.2	289.1	10.7	100009									
6881.0	24.9	-51.5	-51.5	0	38.4	580.0	289.0	10.6	100009									
6880.5	25.9	-51.9	-51.9	0	37.4	580.8	287.7	9.9	100009									

STATION CLIMATE 41000 FT T 45°
65 MPH 15 0800 MDT
ASCP1500 10 19

ערכות א.ה.ל. 16
11.6.2001 נס

TABLE 9 Cont'd

COPPER FRACTION	PPM'S, MILLIMICRONS	TEMPERATURE, °F.	DENSITY, DEGREES C.	WIND DATA		SPEED, KNOTS	REFRACTION, INDEX OF
				PERCENT	DEGREES (TIN)		
0.00000	2.5•3	-0.0•2	30.5	501•7	291•2	9.0	1.00000
0.00001	2.6•0	-0.1•3	35.5	502•5	295•3	8.1	1.00000
0.00002	2.6•6	-0.2•6	34.6	503•5	294•2	8.6	1.00000
0.00003	2.7•3	-0.4•0	33.6	504•1	293•2	9.0	1.00000
0.00004	2.8•0	-0.5•4	32.9	504•9	293•7	8.7	1.00000
0.00005	2.8•3	-0.7•4	32.1	505•7	296•8	7.4	1.00000
0.00006	2.9•0	-0.7•2	31.2	506•5	301•3	6.1	1.00000
0.00007	2.9•3	-0.6•5	30.5	507•1	323•9	3.9	1.00000
0.00008	2.9•9	-0.6•0	29.6	507•4	19•3	3.3	1.00000
0.00009	3.0•1	-0.5•8	29.1	507•7	52•2	4.9	1.00000
0.00010	3.0•5	-0.5•6	28.4	508•0	18•4	2.0	1.00000
0.00011	3.0•6	-0.5•4	27.7	508•3	285•3	2.7	1.00000
0.00012	3.0•7	-0.5•1	27.1	508•6	265•9	6.0	1.00000
0.00013	3.0•7	-0.4•9	26.5	508•9	201•0	10.0	1.00000
0.00014	3.0•4	-0.4•7	25.8	509•1	258•9	14.2	1.00000
0.00015	3.0•0	-0.4•5	25.2	509•4	257•7	18.3	1.00000
0.00016	2.9•6	-0.4•2	24.7	509•7	255•1	17.7	1.00000
0.00017	2.9•2	-0.4•0	24.1	509•0	252•2	17.0	1.00000
0.00018	2.9•9	-0.3•8	23.5	509•3	249•2	16.4	1.00000
0.00019	2.9•5	-0.3•6	23.0	509•5	245•3	15.2	1.00000
0.00020	2.9•2	-0.3•3	22.0	509•0	240•8	14.0	1.00000
0.00021	2.9•9	-0.3•1	21.4	509•1	235•4	12.9	1.00000
0.00022	2.9•5	-0.2•9	21.4	509•5	232•3	13.4	1.00000
0.00023	2.9•2	-0.2•6	20.9	502•4	230•3	14.3	1.00000
0.00024	2.9•0	-0.1•9	20.4	503•2	228•4	15.1	1.00000
0.00025	2.8•6	-0.1•3	19•9	504•1	19•4	1.00000	1.00000
0.00026	2.8•3	-0.0•6	19•4	505•0	18•9	1.00000	1.00000
0.00027	2.8•0	-0.0•2	18•9	505•9	18•5	1.00000	1.00000
0.00028	2.7•7	-0.0•7	18•4	506•7	18•0	1.00000	1.00000

STATION ALTITUDE 4,000 FEET MSL
16 APR. 1953
ASCENDING NO. 1
0400 MDT

TRANSITORY LEVELS
110020010
FM 30

GEODETIC COORDINATES
32°44'07" LAT NE
106°49'14" LONG ELL

TABLE 10

WILLIAMS	GEOPOTENTIAL FLEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. DEPOUND PERCENT	WIND DRA DIRECTION DEGREES (FM)	SPEED KNOTS
150.0	46112.	15.6	-5.6	26	276.0
200.0	0354.	11.1	-5.3	31	265.0
250.0	0169.	7.0	-7.5	35	284.0
300.0	9953.	2.0	-14.2	27	274.5
350.0	11916.	1.1	-22.3	15	204.4
400.0	14008.	-4.0	-24.0	16	254.3
450.0	10236.	-2.5	-27.7	21	237.5
500.0	18674.	-15.6	-32.4	22	232.6
550.0	21210.	-22.0	-37.0	23	239.9
600.0	24067.	-27.6	-44.0	19	238.1
650.0	27117.	-36.3	-49.0	21	245.3
700.0	30530.	-46.0		247.4	35.7
750.0	34520.	-52.5		254.0	39.0
800.0	39154.	-56.4		254.0	52.3
175.0	41927.	-58.8		263.0	69.5
150.0	49120.	-57.0		267.9	69.9
125.0	48068.	-60.3		265.8	78.9
100.0	55308.	-62.2		260.6	61.5
80.0	57915.	-62.8		263.2	58.2
70.0	60640.	-61.5		268.7	40.5
60.0	63783.	-58.3		269.3	12.2
50.0	67566.	-57.4		221.3	4.6
40.0	72223.	-55.2		137.7	3.7
30.0	78200.	-52.0		172.7	7.1
20.0	82143.	-52.0		255.2	7.2
20.0	86048.	-46.1		286.8	7.7
15.0	93264.	-43.2		311.3	4.7
				243.7	14.8

** AT LAST USE ASSUMED METEOROLOGICAL VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4,110.0 FT. MSL
26 APR. 1953 0900 MDT
ASCENDS 10.0. 0.0

SIGNIFICANT LEVEL DATA
11,000 FEET
JALLEN

TABLE 11

STANDARD COORDINATES
33°16'12" LAT DEG
106°49'51" LONG DEG

PRESSURE IN MILLIBARS	GEOMETRIC ALTITUDE IN FEET	TEMPERATURE AIR DEGREES C (NITRIGRDE)	RELATIVE HUMIDITY PERCENT
77.9	4051.0	18.9	32.0
64.9	4115.7	19.0	21.0
55.9	4732.5	16.7	24.0
61.5	5953.6	12.9	29.0
75.9	7054.6	7.0	39.0
72.1	9116.2	4.5	43.0
76.0	10012.7	2.4	41.0
67.5	10347.4	1.4	26.0
64.5	12245.4	0.0	16.0
537.3	12493.4	5.5	21.0
565.7	15584.6	-8.5	25.0
543.7	16593.8	-6.8	20.0
500.0	18693.3	-15.8	23.0
476.0	19700.5	-18.1	21.0
405.0	24105.1	-27.6	20.0
363.1	26374.3	-32.2	20.0
325.9	23849.5	-39.0	21.0
308.0	30693.6	-44.1	
258.0	34642.6	-53.6	
211.9	39123.4	-56.3	
206.7	38645.4	-56.2	
200.0	39330.7	-57.8	
135.6	41109.5	-60.8	
167.4	43601.6	-58.2	
162.7	43591.6	-58.9	
157.9	44215.5	-57.4	
150.0	45261.7	-58.0	
119.6	49971.4	-50.5	
113.3	51083.9	-61.2	
104.2	52279.7	-60.9	
107.0	53640.4	-62.5	
93.0	55322.3	-61.2	
83.0	57439.8	-63.6	
78.0	59712.6	-58.9	
76.4	59141.4	-59.4	
76.0	59139.7	-62.0	
64.2	62720.0	-58.4	
67.6	63916.7	-58.9	
58.5	63735.7	-59.5	
54.0	66012.1	-59.5	

STATION ALTITUDE 6,510.0 FEET
16 APR. 1966 0900 MDT
ASCR.61.5 NO. 66

STATION ALTITUDE 6,510.0 FEET
11,000.00000
ASCR.61.5 NO.

GEOPOT. COORDINATES
33.16712 LAT DEG
106.049511 LONG

TABLE 11 Cont'd

PRESSURE GRAD., IN MILLIBARS HSL FEL, I	ALTITUDE IN FEET	TEMPERATURE AIR DEPOINT IN DEGREES CELSIUS	REL. HUM. PERCENT
50.0	07039.9	-55.8	
47.4	09060.8	-56.7	
45.1	10107.9	-54.6	
39.7	72002.2	-55.2	
32.6	16090.8	-51.2	
31.5	77739.3	-50.0	
30.0	78791.1	-50.1	
26.3	81630.6	-51.5	
24.2	83432.1	-49.0	
20.0	87612.5	-45.8	
17.2	90190.2	-43.2	
11.4	100175.9	-41.5	
10.0	103160.6	-35.2	
9.3	104044.6	-33.1	
9.2	107779.7	-33.1	

STATION 61111 0900 MDT

卷之三

ULTRATIC COCONUT SHELLS

TABLE 12

STATION AL11100 451.09 F.F.I. MSL
26 APR 15 0900 MDT
ASCN110.

TABLE 12 Cont'd

GEOMETRIC COORDINATES
53.16712 LAT DEG
106.49511 LON DEG

DEFINITION		PRESSURE		TEMPERATURE		REL.HUM.		WIND DATA		WIND DATA	
ALTIMETER	INSL FELT	MM. OF Hg	MM. OF Hg	DEGREES	DEGREES	PERCENT	PERCENT	MPH.	MPH.	MPH.	MPH.
24000.0	4011.7	-77.4	-43.2	20.0	20.0	010.8	010.8	249.0	34.1	1.000128	1.000125
24500.0	3903.3	-20.4	-41.0	20.0	20.0	09.5	09.5	250.6	31.1	1.000125	1.000123
25000.0	3800.0	-29.4	-45.1	20.0	20.0	05.2	05.2	253.1	34.4	1.000123	1.000121
25500.0	3700.0	-30.4	-46.0	20.0	20.0	04.9	04.9	256.1	35.6	1.000121	1.000119
26000.0	3600.0	-31.4	-46.8	20.0	20.0	03.7	03.7	257.0	37.3	1.000119	1.000117
26500.0	3500.0	-32.5	-47.8	20.1	20.1	02.8	02.8	257.6	39.3	1.000117	1.000115
27000.0	3500.0	-33.9	-48.9	20.3	20.3	02.0	02.0	255.9	41.0	1.000115	1.000113
27500.0	3400.7	-35.3	-49.9	20.5	20.5	01.9	01.9	253.3	41.8	1.000113	1.000111
28000.0	3300.2	-36.7	-51.0	20.7	20.7	01.8	01.8	251.1	41.9	1.000111	1.000111
28500.0	3300.9	-38.0	-52.2	20.9	20.9	01.7	01.7	249.4	41.1	1.000110	1.000110
29000.0	3200.7	-39.4	-54.0	19.3**	19.3**	01.6	01.6	247.4	40.6	1.000108	1.000108
29500.0	3100.5	-40.8	-57.0	13.6**	13.6**	01.5	01.5	247.0	40.4	1.000106	1.000106
30000.0	3000.5	-42.2	-63.2	7.9**	7.9**	01.4	01.4	249.0	40.4	1.000104	1.000104
30500.0	3002.7	-43.6	-73.0	2.3**	2.3**	01.3	01.3	251.0	40.9	1.000102	1.000102
31000.0	2900.3	-44.8	-73.6	451.0	451.0	01.2	01.2	252.9	41.5	1.000101	1.000101
31500.0	2900.1	-46.0	-74.0	443.4	443.4	01.1	01.1	253.2	41.6	1.000100	1.000099
32000.0	2802.5	-47.2	-74.2	435.6	435.6	01.0	01.0	253.4	41.7	1.000097	1.000097
32500.0	2700.2	-48.4	-74.4	427.9	427.9	00.9	00.9	253.5	41.9	1.000095	1.000095
33000.0	2600.7	-49.6	-74.6	420.4	420.4	00.8	00.8	253.4	42.5	1.000094	1.000094
33500.0	2500.6	-50.8	-74.8	413.0	413.0	00.9	00.9	252.9	43.5	1.000092	1.000092
34000.0	2500.5	-52.1	-75.0	405.8	405.8	00.9	00.9	253.7	45.7	1.000090	1.000090
34500.0	2501.7	-53.3	-75.2	398.7	398.7	00.7	00.7	255.5	49.1	1.000089	1.000089
35000.0	2500.8	-53.9	-75.4	390.5	390.5	00.9	00.9	256.9	53.6	1.000087	1.000087
35500.0	2400.7	-54.5	-75.6	382.0	382.0	00.4	00.4	256.4	57.9	1.000085	1.000085
36000.0	2300.6	-55.3	-75.8	373.7	373.7	00.9	00.9	259.1	63.6	1.000083	1.000083
36500.0	2200.9	-56.0	-75.0	365.6	365.6	00.4	00.4	260.2	67.7	1.000081	1.000081
37000.0	2200.5	-55.4	-75.5	357.6	357.6	00.4	00.4	262.0	71.4	1.000080	1.000080
37500.0	2100.3	-55.9	-75.5	349.9	349.9	00.9	00.9	264.2	74.8	1.000078	1.000078
38000.0	2100.1	-56.2	-76.0	342.5	342.5	00.4	00.4	266.1	76.1	1.000076	1.000076
38500.0	2000.4	-56.2	-76.7	334.2	334.2	00.4	00.4	268.1	75.6	1.000074	1.000074
39000.0	2000.2	-57.0	-77.0	327.6	327.6	00.7	00.7	269.2	74.6	1.000073	1.000073
39500.0	1900.4	-58.1	-78.1	321.3	321.3	01.3	01.3	269.4	72.5	1.000072	1.000072
40000.0	1900.6	-59.0	-78.1	314.9	314.9	00.2	00.2	269.1	71.4	1.000070	1.000070
40500.0	1800.7	-59.0	-78.0	308.6	308.6	01.1	01.1	268.0	71.6	1.000069	1.000069
41000.0	1800.5	-60.6	-78.7	302.4	302.4	00.9	00.9	266.8	71.0	1.000067	1.000067
41500.0	1800.0	-60.2	-79.0	294.6	294.6	00.4	00.4	265.4	72.1	1.000066	1.000066
42000.0	1700.7	-69.6	-79.7	286.0	286.0	00.3	00.3	264.9	72.3	1.000064	1.000064
42500.0	1710.5	-68.9	-80.9	278.9	278.9	00.7	00.7	262.6	72.3	1.000062	1.000062
43000.0	1600.1	-68.2	-80.2	271.6	271.6	00.4	00.4	260.3	72.0	1.000060	1.000060
43500.0	1600.0	-67.0	-80.0	264.0	264.0	00.6	00.6	258.9	71.6	1.000058	1.000058

STATION ALTITUDE 4,510.0 FEET MSL
 6 APR. 1963 0900 MDT

UPPER AIR DATA
 1160030000
 JALLEU

GEODETIC COORDINATES
 33°16'71" LAT DEG
 106°49'31" LONG DEG

TABLE 12 Cont'd

SEASCAPE	PIPELINE	TEMPERATURE °F.	REL. HUM. PERCENT	DEWPOINT PERCENT	GEM/CURRIC METER	SIGHT DEGREES	WIND DATA DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
440000.0	150.0	-67.8	250.0	371.7	<61.0	75.4	1.000057		
445000.0	150.7	-67.4	251.5	572.2	<61.6	77.2	1.000056		
450000.0	152.0	-67.0	249.9	571.7	262.3	78.9	1.000055		
455000.0	149.0	-58.1	240.4	571.5	260.0	80.4	1.000054		
460000.0	149.9	-58.2	234.4	571.1	253.2	81.4	1.000052		
465000.0	141.0	-48.4	229.4	570.4	262.5	81.5	1.000051		
470000.0	130.1	-38.5	224.1	570.7	261.7	81.4	1.000050		
475000.0	134.8	-38.7	216.9	570.5	260.5	80.2	1.000049		
480000.0	131.5	-38.9	213.9	570.3	259.3	79.0	1.000048		
485000.0	122.4	-42.0	206.9	570.1	259.0	78.1	1.000047		
490000.0	125.3	-49.2	204.1	569.9	258.6	77.2	1.000045		
495000.0	126.4	-49.3	199.4	569.0	256.7	76.7	1.000044		
500000.0	119.4	-49.5	194.8	569.4	258.8	76.1	1.000043		
505000.0	110.6	-40.3	190.8	569.4	259.9	74.0	1.000042		
510000.0	115.8	-41.1	186.9	567.3	259.1	73.0	1.000042		
515000.0	111.0	-61.1	182.4	567.3	259.4	71.2	1.000041		
520000.0	105.3	-61.0	177.9	567.4	160.0	69.6	1.000040		
525000.0	105.7	-61.0	173.6	567.5	260.7	68.0	1.000039		
530000.0	105.2	-61.3	169.7	567.1	261.9	67.4	1.000038		
535000.0	100.7	-62.2	160.3	567.3	265.2	67.1	1.000037		
540000.0	90.5	-62.0	162.2	567.9	264.9	66.4	1.000036		
545000.0	90.9	-61.7	158.0	567.4	265.7	65.0	1.000035		
550000.0	90.6	-61.3	153.9	567.0	267.0	63.7	1.000034		
555000.0	94.3	-61.6	150.3	566.0	266.4	60.5	1.000033		
560000.0	69.1	-62.1	167.0	566.0	270.0	57.2	1.000033		
565000.0	80.9	-62.6	143.8	566.3	272.0	52.1	1.000032		
570000.0	84.3	-63.1	140.7	564.0	274.8	44.4	1.000031		
575000.0	82.0	-63.4	137.4	564.2	278.7	36.8	1.000031		
580000.0	80.8	-61.6	132.9	566.7	260.8	28.5	1.000030		
585000.0	76.8	-59.7	126.6	569.2	284.0	20.1	1.000029		
590000.0	76.9	-59.2	125.3	569.0	285.2	13.4	1.000028		
595000.0	75.1	-59.3	122.7	569.4	274.5	9.6	1.000027		
600000.0	75.2	-60.6	120.1	567.9	252.0	6.5	1.000027		
605000.0	71.5	-61.4	117.0	569.4	227.1	5.3	1.000026		
610000.0	69.8	-61.9	115.1	569.3	200.2	5.2	1.000026		
615000.0	69.1	-60.9	111.8	567.0	175.2	5.8	1.000025		
620000.0	60.5	-59.9	106.6	569.0	145.7	6.1	1.000024		
625000.0	64.9	-59.8	105.5	570.3	144.3	7.0	1.000023		
630000.0	64.3	-59.4	102.7	570.4	112.6	8.8	1.000023		
635000.0	61.0	-58.9	100.3	570.9	105.7	9.6	1.000022		

17 AUG 1963
1600Z
ASCEND. 10.0
0900 MDT

UPPER AIR DATA
11 AUGUST 1963
JULIAN

GEONET COORDINATES
33°16'7.2" LAT REG
106°49'51.1" LONG REG

TABLE 12 Cont'd

GEONET	PR.DZ. (HR)	PR.DZ. (HR)	REL.HUM.	DEWPT	SPLFD. OF	WIND DATA	INFLX	SPD	WIND DATA	INFLX	SPD	WIND DATA	INFLX
ALTITUDE	FEET	FEET	DEGREES	PERCENT	CM/SEC	CM/SEC	DEGREES	KNOTS	DEGREES	DEGREES	KNOTS	DEGREES	DEGREES
REL.FLT	REL.FLT	REL.FLT	DEGREES	CLIM.CD	NETF	NETF	DEGREES	DEGREES	DEGREES	DEGREES	DEGREES	DEGREES	DEGREES
64000.0	60°.9	-60°.9	-60°.9	-60°.9	97.9	97.9	97.1	10.1	1.000022	1.000021	9.1	1.000021	1.000021
64500.0	59°.9	-59°.9	-59°.9	-59°.9	95.8	95.8	94.5	9.1	1.000021	1.000021	9.2	1.000021	1.000021
65000.0	58°.9	-58°.9	-58°.9	-58°.9	93.3	93.3	91.3	8.2	1.000020	1.000020	7.3	1.000020	1.000020
65500.0	56°.9	-56°.9	-56°.9	-56°.9	90.9	90.9	94.5	7.3	1.000020	1.000020	6.6	1.000020	1.000020
66000.0	54°.9	-54°.9	-54°.9	-54°.9	87.9	87.9	101.2	6.6	1.000019	1.000019	6.1	1.000019	1.000019
66500.0	52°.9	-52°.9	-52°.9	-52°.9	85.8	85.8	110.3	5.3	1.000019	1.000019	6.1	1.000019	1.000019
67000.0	50°.9	-50°.9	-50°.9	-50°.9	83.8	83.8	123.2	6.1	1.000019	1.000019	6.4	1.000018	1.000018
67500.0	48°.9	-48°.9	-48°.9	-48°.9	81.8	81.8	135.4	5.4	1.000018	1.000018	6.5	1.000018	1.000018
68000.0	46°.9	-46°.9	-46°.9	-46°.9	79.9	79.9	148.3	4.3	1.000017	1.000017	6.9	1.000017	1.000017
68500.0	44°.9	-44°.9	-44°.9	-44°.9	78.4	78.4	160.8	3.8	1.000017	1.000017	7.6	1.000017	1.000017
69000.0	42°.9	-42°.9	-42°.9	-42°.9	76.5	76.5	170.9	3.2	1.000017	1.000017	7.6	1.000017	1.000017
69500.0	40°.9	-40°.9	-40°.9	-40°.9	74.4	74.4	177.5	2.5	1.000017	1.000017	8.1	1.000017	1.000017
70000.0	38°.9	-38°.9	-38°.9	-38°.9	72.3	72.3	183.2	2.2	1.000016	1.000016	8.6	1.000016	1.000016
70500.0	36°.9	-36°.9	-36°.9	-36°.9	70.6	70.6	186.3	1.9	1.000016	1.000016	8.9	1.000016	1.000016
71000.0	34°.9	-34°.9	-34°.9	-34°.9	69.0	69.0	187.6	1.6	1.000015	1.000015	8.0	1.000015	1.000015
71500.0	32°.9	-32°.9	-32°.9	-32°.9	67.4	67.4	188.6	1.4	1.000015	1.000015	8.8	1.000015	1.000015
72000.0	30°.9	-30°.9	-30°.9	-30°.9	65.9	65.9	191.1	1.1	1.000015	1.000015	9.3	1.000015	1.000015
72500.0	28°.9	-28°.9	-28°.9	-28°.9	64.3	64.3	193.8	0.8	1.000014	1.000014	7.9	1.000014	1.000014
73000.0	36°.3	-36°.3	-36°.3	-36°.3	62.8	62.8	196.7	0.7	1.000014	1.000014	7.4	1.000014	1.000014
73500.0	34°.5	-34°.5	-34°.5	-34°.5	61.2	61.2	198.6	0.6	1.000014	1.000014	8.0	1.000014	1.000014
74000.0	32°.5	-32°.5	-32°.5	-32°.5	59.7	59.7	200.4	0.4	1.000013	1.000013	7.3	1.000013	1.000013
74500.0	30°.7	-30°.7	-30°.7	-30°.7	58.2	58.2	199.1	0.3	1.000013	1.000013	7.2	1.000013	1.000013
75000.0	38°.6	-38°.6	-38°.6	-38°.6	56.7	56.7	193.1	0.1	1.000013	1.000013	7.3	1.000013	1.000013
75500.0	35°.6	-35°.6	-35°.6	-35°.6	55.3	55.3	167.4	-0.4	1.000012	1.000012	7.4	1.000012	1.000012
76000.0	33°.2	-33°.2	-33°.2	-33°.2	53.9	53.9	188.1	-0.6	1.000012	1.000012	7.3	1.000012	1.000012
76500.0	31°.8	-31°.8	-31°.8	-31°.8	52.5	52.5	192.9	-0.8	1.000012	1.000012	7.6	1.000012	1.000012
77000.0	34°.6	-34°.6	-34°.6	-34°.6	51.2	51.2	201.4	-0.4	1.000011	1.000011	6.1	1.000011	1.000011
77500.0	31°.9	-31°.9	-31°.9	-31°.9	49.7	49.7	220.6	-0.6	1.000011	1.000011	5.3	1.000011	1.000011
78000.0	31°.1	-31°.1	-31°.1	-31°.1	48.5	48.5	270.9	-0.7	1.000011	1.000011	6.7	1.000011	1.000011
78500.0	30.4	-30.4	-30.4	-30.4	47.5	47.5	292.9	-0.7	1.000011	1.000011	7.1	1.000011	1.000011
79000.0	29.7	-29.7	-29.7	-29.7	46.4	46.4	310.0	-0.1	1.000010	1.000010	9.1	1.000010	1.000010
79500.0	29.0	-29.0	-29.0	-29.0	45.4	45.4	319.6	-0.7	1.000010	1.000010	8.7	1.000010	1.000010
80000.0	29.3	-29.3	-29.3	-29.3	44.4	44.4	326.0	-0.3	1.000010	1.000010	8.3	1.000010	1.000010
80500.0	27.7	-27.7	-27.7	-27.7	43.5	43.5	334.6	-0.7	1.000010	1.000010	7.1	1.000010	1.000010
81000.0	27.1	-27.1	-27.1	-27.1	42.5	42.5	329.4	-0.4	1.000010	1.000010	6.5	1.000010	1.000010
81500.0	26.5	-26.5	-26.5	-26.5	41.6	41.6	320.5	-0.1	1.000010	1.000010	5.7	1.000010	1.000010
82000.0	25.9	-25.9	-25.9	-25.9	40.5	40.5	314.5	-0.9	1.000010	1.000010	4.9	1.000010	1.000010
82500.0	25.3	-25.3	-25.3	-25.3	39.4	39.4	314.9	-0.6	1.000010	1.000010	3.8	1.000010	1.000010
83000.0	24.7	-24.7	-24.7	-24.7	38.5	38.5	315.0	-0.3	1.000010	1.000010	2.7	1.000010	1.000010
83500.0	24.1	-24.1	-24.1	-24.1	37.5	37.5	314.9	-0.9	1.000010	1.000010	2.9	1.000010	1.000010

Y. 1964 ALTITUDE 6,000 FT. 1 MSL
26 APR. 53
ASC. 51.00 M.O. 0900 MDT

WEATHER
VISIBILITY
PRECIPITATION
WIND DIRECTION
CENTERS

STATION COORDINATES
43.16712 LAT DEG
106.49511 LONG DEG

TABLE 12 Cont'd

STATION	PROBABILITY	TEMPERATURE	RELATIVE HUMIDITY	OPACITY	WIND DIRECTION	WIND SPEED KNOTS	WIND DIRECTION DEGREES (TH)	WIND DIRECTION DEGREES (TH)	WIND DIRECTION DEGREES (TH)	INDEX REFRACTION
00000.0	2.0	-7.7	36.4	380.0	180.4	1.2	1.000000			
00000.0	2.0	-7.4	32.0	285.0	169.7	2.3	1.000000			
00000.0	2.0	-7.2	34.7	305.0	179.9	2.3	1.000000			
00000.0	2.0	-6.9	33.9	320.0	169.4	2.5	1.000000			
00000.0	2.0	-6.6	33.1	330.0	209.3	3.1	1.000000			
00000.0	2.0	-6.4	32.3	330.0	222.7	4.1	1.000000			
00000.0	2.0	-6.1	31.0	330.0	229.1	5.0	1.000000			
00000.0	2.0	-5.9	30.2	330.0	231.5	5.5	1.000000			
00000.0	1.9	-6.7	30.1	340.0	233.6	5.9	1.000000			
00000.0	1.9	-6.4	29.3	340.0	245.3	5.3	1.000000			
00000.0	1.9	-6.2	28.5	340.0	255.6	4.7	1.000000			
00000.0	1.9	-6.0	27.6	340.0	265.8	4.6	1.000000			
00000.0	1.9	-5.8	27.2	340.0	261.2	4.0	1.000000			
00000.0	1.9	-5.6	26.6	340.0	268.5	3.4	1.000000			
00000.0	1.9	-5.4	26.0	340.0	279.0	3.5	1.000000			
00000.0	1.9	-5.0	25.4	340.0	251.6	5.1	1.000000			
00000.0	1.9	-4.9	24.9	340.0	239.0	7.3	1.000000			
00000.0	1.9	-4.8	24.3	340.0	234.6	12.7	1.000000			
00000.0	1.9	-4.7	23.7	340.0	233.0	18.4	1.000000			
00000.0	1.9	-4.6	23.2	340.0	233.1	22.5	1.000000			
00000.0	1.9	-4.5	22.7	340.0	235.6	22.9	1.000000			
00000.0	1.9	-4.4	22.2	340.0	233.1	23.3	1.000000			
00000.0	1.9	-4.3	21.7	340.0	242.3	21.7	1.000000			
00000.0	1.9	-4.2	21.2	340.0	246.3	19.5	1.000000			
00000.0	1.9	-4.1	20.7	340.0	255.4	17.4	1.000000			
00000.0	1.9	-4.0	20.2	340.0	255.0	17.4	1.000000			
00000.0	1.9	-3.9	19.7	340.0	259.1	15.4	1.000000			
00000.0	1.9	-3.8	19.2	340.0	263.8	15.4	1.000000			
00000.0	1.9	-3.7	19.4	340.0	270.7	12.6	1.000000			
00000.0	1.9	-3.6	18.9	340.0	278.2	13.3	1.000000			
00000.0	1.9	-3.5	18.5	340.0	284.9	14.2	1.000000			
00000.0	1.9	-3.4	18.1	340.0	281.8	14.6	1.000000			
00000.0	1.9	-3.3	17.7	340.0	277.4	14.9	1.000000			
00000.0	1.9	-3.2	17.3	340.0	269.8	15.4	1.000000			
00000.0	1.9	-3.1	16.9	340.0	253.1	16.6	1.000000			
00000.0	1.9	-3.0	16.4	340.0	239.7	19.0	1.000000			
00000.0	1.9	-2.9	16.0	340.0	237.3	22.4	1.000000			
00000.0	1.9	-2.8	15.6	340.0	240.0	26.2	1.000000			
00000.0	1.9	-2.7	15.2	340.0	242.1	29.9	1.000000			
00000.0	1.9	-2.6	14.8	340.0	244.8	29.2	1.000000			
00000.0	1.9	-2.5	14.4	340.0	248.3	27.2	1.000000			

STATION ALTITUDE: 4,110.00 FEET
APR. 23, 1960 MDT
ASURATION NO. 10.

WPLR AIR DATA
116.000065
JALI, 11

TABLE 12 Cont'd

GEOD. ALT. ALITUDE IN FEET	PRESSURE IN MILLIBARS	TEMPERATURE IN MILLIAPR., DEGREES, CENTIGRADE	WFL HUM. AIR DEPOLLUT. PERCENT	WFL HUM. GR/CURR. METER	WIND DATA DIRECTION WINDS KNOTS				
104000.0	9.01	-33.2	14.1	602.4	252.4	25.4	1.000003	1.000003	1.000003
104500.0	9.01	-33.5	13.7	602.1	13.7	13.7	1.000003	1.000003	1.000003
105000.0	9.02	-33.1	13.4	603.6	13.4	13.4	1.000003	1.000003	1.000003
105500.0	9.02	-33.1	13.1	603.0	13.1	13.1	1.000003	1.000003	1.000003
106000.0	9.03	-33.1	12.6	602.6	12.6	12.6	1.000003	1.000003	1.000003
106500.0	9.03	-33.1	12.0	602.0	12.0	12.0	1.000003	1.000003	1.000003
107000.0	9.05	-33.1	12.3	602.6	12.3	12.3	1.000003	1.000003	1.000003
107500.0	9.05	-33.1	12.0	602.0	12.0	12.0	1.000003	1.000003	1.000003

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permit fully legible reproduction

STATION NUMBER 01000000
LAT. 36° 15' 00"
LONG. 106° 49' 11" W
0900 MDT

ATMOSPHERIC
PRESSURE
TABLE
13

SEA-LEVEL
COORDINATES
33° 10' 7.12" LAT. N
106° 49' 11" LONG. W

PRESENT PRESSURE IN MILLIBARS	PRESENT WIND BEEF	ATM DEPRESSION IN MILLIBARS	PRESENT WIND DIRECTION IN DEGREES FROM NORTH	PRESENT WIND SPEED IN KNOTS	WIND DATA
1000.0	4720.	16.7	-3.9	24.	259.0 2.4
999.9	0406.	11.6	-4.9	31.	256.6 3.7
999.8	0119.	6.0	-6.2	60.	277.7 10.2
999.6	10004.	2.0	-10.5	64.	270.4 15.8
999.5	11961.	.9	-12.0	16.	265.5 30.6
999.4	14055.	-1.0	-2.0	25.	250.4 29.1
999.3	16202.	-1.4	-27.0	21.	234.5 25.4
999.2	18671.	-16.8	-32.4	25.	256.0 26.6
999.1	21241.	-21.2	-37.6	21.	234.9 37.0
999.0	24067.	-27.6	-43.6	20.	249.5 34.1
998.9	27120.	-31.5	-40.0	21.	254.9 41.4
998.8	30100.	-41.1	-40.3	21.	251.6 41.1
998.6	34570.	-53.6	-53.6	255.9 50.0	
998.5	39240.	-57.2	-57.2	269.5 75.2	
998.4	41960.	-59.4	-59.4	263.9 72.3	
998.3	45164.	-53.0	-53.0	262.6 74.7	
998.2	48923.	-52.2	-52.2	258.0 77.2	
998.1	53470.	-62.5	-62.5	263.5 67.0	
998.0	58903.	-69.8	-69.8	261.0 25.7	
997.9	60775.	-62.0	-62.0	264.9 5.2	
997.8	63901.	-53.4	-53.4	96.7 9.9	
997.7	67600.	-51.0	-51.0	146.0 6.5	
997.6	72360.	-51.2	-51.2	194.5 7.8	
997.5	78464.	-50.1	-50.1	302.5 8.3	
997.4	82362.	-49.4	-49.4	315.2 3.4	
997.3	87208.	-45.8	-45.8	231.9 5.5	
997.2	93556.	-42.5	-42.5	235.5 22.9	
997.1	1026118.	-31.2	-31.2	245.0 26.8	

** ALL LAST ONE ASSUMED AS LAST AND ONLY VALUE AS USED IN THE INTERPOLATION.